ENTERAL NUTRITION PUMPS

1. Setting up your equipment:

Home Use:

- Fill bag and hang on IV Pole. (*Picture 1*)
- Attach tubing to pump. (*Picture 2*)
- Pump should be set to OFF before plugging into electrical outlet.
- Plug Input 120 V, 60Hz, 200 mA

Ambulatory:

- Check for battery charge.
- Fill bag. (*Picture 3*)
- Attach to pump.
- Place into ambulatory bag.

Picture 1

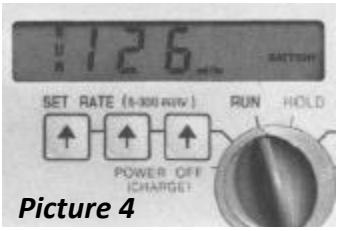
Picture 2

Picture 3

2. Using your equipment:

- Turn pump dial to the Set Rate position, and set designated food rate (mL/hr). (*Picture 4*)
- Locate correct dose and set to instructions.
- Press/Turn/Set to run

*If product is not filled at bedside, it is advisable to close slide clamp before transporting.
*Make sure slide clamp is open for set up.



Picture 4

3. Frequent replacement items:

Tubing (Picture 5)

Feeding bags (Picture 6)

4. Special Procedures:

- Ambulatory Pump:

- Must have correct ambulatory bag for pump and tubing bags to work properly. Brands may differ. Check instructions for placement of pump and bag.

- A new pump should be plugged into an A/C outlet before initial use for directed amount of time to assure full battery charge.

CARELINC
Home Medical Equipment & Supply

ENTERAL NUTRITION PUMPS

5. Safety Issues:

- Alarm Sounding:
  - Check for kink(s) in the tubing.
  - Check for empty bag (do not operate pump with empty bag)
  - Check for low battery
  - Check for clogging in the line, slide the clamp to assure its completely open.
  - Check drip chamber to be sure its not more than 1/4 full or coated with product.
  - Be sure all bags and tubing are compatible with the pump you are using.

6. Maintenance:

- The outside of the pump can be cleaned with warm soapy water.
- The pump cavity can be cleaned with a cotton swab or soft cloth and warm soapy water. DO NOT CLEAN WITH ALCOHOL.
- Pump should be turned off or recharge battery (if available) when not in use.
- DO NOT SUBMERGE OR AUTOCLAVE the pump or charger.

*** Please contact your local CareLinc provider for any questions, adjustments, or repairs. ***

CARELINC
Home Medical Equipment & Supply

ENTERAL FORMULAS / NUTRITION

Enteral formulas are liquid food products that are specially formulated and designed to increase the amount of various food elements and nutrients that will maintain proper physiological function of the body process. They may also be used to correct an existing deficiency.

Proper Use of Enteral Nutrition Formula: Your enteral feeding may be given by mouth or by a feeding tube. Use the amount recommended by your doctor.

For patients taking the **oral liquid** form of enteral nutrition:

- This preparation is in ready-to-use form. No dilution is needed unless directed by your physician.
- Shake the preparation well before opening. Refrigerate after opening, out of the reach of children. Most formulas can be kept in the refrigerator for 1 to 2 days. Check the label of your product.

For patients using the **powder** form of this preparation:

- For mixing or other use, follow carefully the instructions on the package.
- Any unused solution should be kept in the refrigerator, out of the reach of children. Most formulas can be kept in the refrigerator for 1 to 2 days. Check the label of your product.

Storage

To store the unopened container:

Keep out of the reach of children.

Store away from heat and direct light.

Do not store in the bathroom, near the kitchen sink, or in other damp places. Heat or moisture may cause the enteral nutrition formula to break down.

Keep the enteral nutrition formula from freezing. Do not refrigerate, unless the product has been opened or mixed.

Do not keep outdated enteral nutrition formulas or those no longer needed. Be sure that any discarded enteral nutrition formula is out of the reach of children.

Never tamper with the label on enteral nutritional formula.

Always refer to the label for usage, safety and storage information.

CareLinc Medical Equipment
www.carelincmed.com
888.810.5462

BENEFICIARY NAME: _____ DATE: _____

ADDRESS: _____

_____

ITEM: ENTERAL FOOD PUMP

Medicare requires your supplier to give you the option of purchasing the enteral food pump that you are being setup with today. This means, if you accept the purchase option, Medicare will be billed for the full purchase price of the enteral pump. You will be responsible for the 20% coinsurance and any remaining deductible with Medicare.

Should you decide to not elect the purchase option, Medicare will make 15 monthly rental payments. You will be responsible for the 20% coinsurance each month as well as any remaining deductible with Medicare.

In making your decision to rent or purchase the equipment, your supplier may charge you coinsurance as well as any remaining deductible with Medicare each time that your equipment is actually serviced after the 15 rental months.

Please indicate your choice today in the area below. If you have any questions, please feel free to call us at the number listed at the top of this letter.

Options:

☐ Continued Rental ☐ Purchase

BENEFICIARY SIGNATURE: _____

DATE: _____

ACCT. # _____

AFTER COMPLETION, PLEASE GIVE COPY TO CUSTOMER AND KEEP ORIGINAL COPY WITH SETUP PACKET

ZEVEX®
Enteral Nutrition Delivery Systems

Actual User
(see page iii for details)

EnteraLite® Infinity®
ENTERAL FEEDING PUMP

OPERATOR'S MANUAL

TABLE OF CONTENTS

Page

PRODUCT OVERVIEW

The EnteraLite® ® is a rotary peristaltic enteral feeding pump designed to deliver programmed doses of enteral nutrition solutions at selectable rates. It is easy to use with a simple user interface and keypad. ZEVEX technology allows an accuracy rate of +/- 5% and the ability to safely operate in any orientation. The EnteraLite system includes a complete line of DEHP-free pump delivery sets

The EnteraLite is designed for both hospital and alternate care use. It is durable, water resistant, and easily carried in a ZEVEX carry pack. The EnteraLite s size, weight, accuracy, and portability promote and support health improving physical activity.

Cover Image

Actual user, 9 year-old Kendall Hollinger. 2005 ISI World Champion Figure Skater. 2004 ISI California State Champion Figure Skater. For more information on Kendall, contact Kim Hollinger at ibtaxi2ice@aol.com.

LIST OF WARNINGS AND CAUTIONS

WARNINGS

- Use ONLY feeding solutions prescribed by the responsible physician, registered dietitian, registered nurse, or other licensed practitioner.
- Use ONLY EnteraLite Disposable Sets to ensure proper delivery. Others will not deliver the correct dose, may allow dangerous conditions, and may generate hazardous pressures which may activate occlusion alarms at unpredictable pressures.
- Low rates, combined with high dose settings may exceed the life of the disposable set. The disposable set must be replaced every 24 hours to maintain delivery accuracy, allow proper air and occlusion sensing, and prevent growth of bacteria. DO NOT PROGRAM RATE AND DOSE COMBINATIONS WHICH EXCEED A 24 HOUR FEED REGIMEN.
- The battery capacity is an approximation. If you are unsure that enough capacity remains for your intended use, recharge it.
- To avoid electrical shock, never clean pump with charger plugged into an outlet or when pump is on.
- Make sure the EnteraLite AC Adapter/Charger is completely dry before plugging into an electrical outlet.
- Do not use EnteraLite Enteral Feeding Pump for delivery of non-enteral solutions. Serious injury may result.
- Proper operation of pump requires door is closed and latched. Make sure door is closed and latched when motor is running.
- If an error occurs (ER01 - ER99 or ERRA - ERRZ will appear in display), all settings and volume counters should be checked and before starting a feeding.

CAUTIONS

- Federal law (U.S.A.) restricts this device to sale by or on the order of a physician, registered dietitian, registered nurse, or other licensed practitioner.
- Dispose of EnteraLite Disposable Sets properly, as required by local law.
- If any leaks are detected in the disposable set, stop pump operation and disconnect set from patient and replace with a new disposable set.
- Care should be used when manually priming delivery set to ensure cassette is not damaged by excess force.
- Do not overload carry packs with personal items. Pump function may be affected by kinked or pinched tubing and/or unintentional button presses.

1. PUMP COMPONENTS

EnteraLite Infinity Enteral Feeding Pump

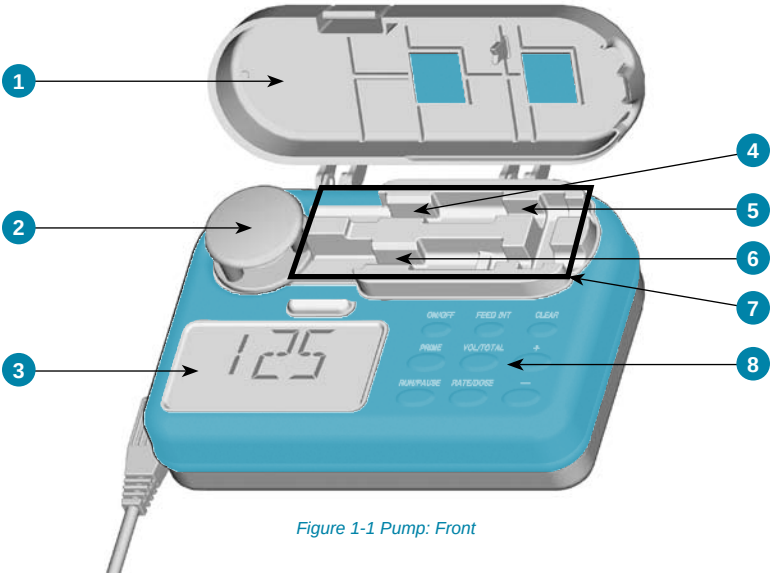


Figure 1-1 Pump: Front

1. Door
2. Pump Wheel
3. Display
4. Upstream Pressure Sensor
5. Air Sensor
6. Downstream Pressure Sensor
7. Receptacle for Cassette
8. Keypad

EnteraLite Infinity Enteral Feeding Pump

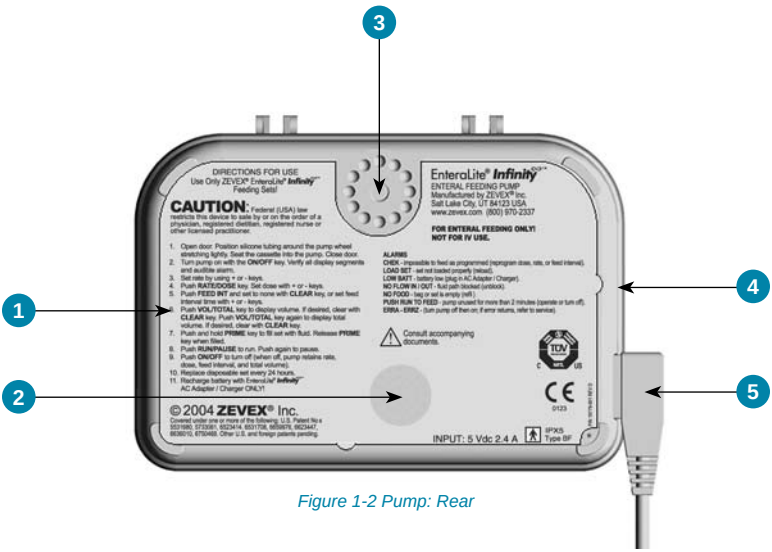


Figure 1-2 Pump: Rear

1. Pump Instruction Label
2. Speaker
3. Receptacle for Pole Clamp
4. Serial Number Label
5. Charger/Power Connector

Keypad

Press **ON/OFF** key for 1.5 seconds to f.

Press and hold **PRIME** key to rapidly disposable set with Release key to stop.

Press **RUN/PAUSE** key to either start pump or place it in pause mode.

Press **FEED INT** key to display feed interval setting.

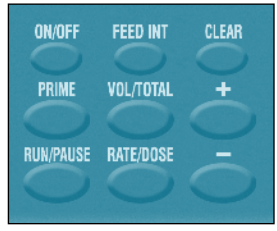


Figure 1-3 Keypad Layout

Press **VOL/TOTAL** key once to display volume delivered for current feeding. Press key again to display total cumulative volume delivered in all feed cycles since total volume was last cleared.

Press **RATE/DOSE** key to transition between rate and dose settings.

Press **CLEAR** key to reset displayed function to its minimum value. Press and hold for three seconds to clear rate, dose, feed interval and volume delivered to minimum values at the same time.

Press **+** key to increase displayed feed function. Press and hold key to increase value rapidly.

Press **-** key to decrease displayed feed function. Press and hold key to decrease value rapidly.

Note: The following keys only function when pump is in pause mode: **PRIME**, **CLEAR**, **+**, and **-** .

Display

The display includes large alphanumeric characters, as well as smaller symbols and words. All segments and symbols on the display are shown in *Figure 1-4*.

Settings and messages are displayed in large alphanumeric characters (*Figure 1-5*).

When the large alphanumeric characters display numbers, one of the smaller words below the characters indicates which function is being displayed (*Figure 1-6*).

The run symbol indicates pump is running (*Figure 1-7*).

The wall plug symbol indicates the charger is plugged in, and connected to a live power outlet. The battery symbol indicates pump is running on battery power only. The fuel gauge symbol indicates how much battery charge remains (*Figure 1-8*).

NOTE: The display light will automatically turn off 10 seconds after the last key is pressed. The light will also remain on for 10 seconds after the charger is connected between pump and live power outlet. If you would prefer the light to remain on when connected to an outlet, you can change the pump light setting to ON. See the User Preference Settings section (*Page 19*) for instructions to change this setting.

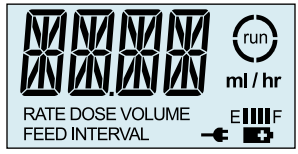


Figure 1-4 Display Segments

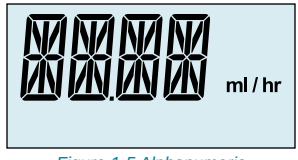


Figure 1-5 Alphanumeric Characters and Units

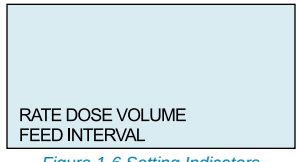


Figure 1-6 Setting Indicators

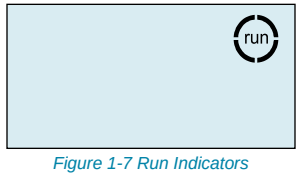


Figure 1-7 Run Indicators

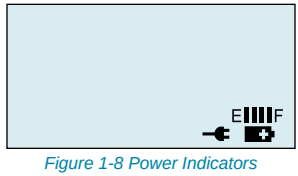


Figure 1-8 Power Indicators

Disposable Set

ty pump are:

- 500 ml Bag Set - Order Number INF0500
- 1200 ml Bag Set - Order Number INF1200
- Spike Set - Order Number INF0010

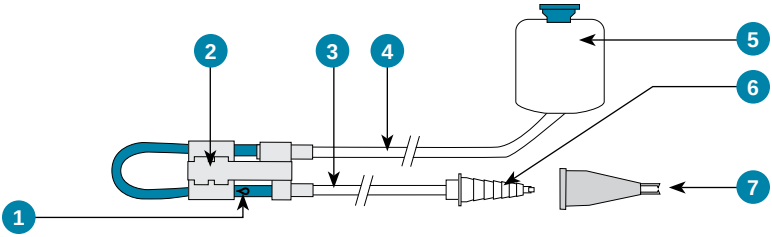


Figure 1-9 EnteraLite Infinity 500ml or 1200ml Bag Set

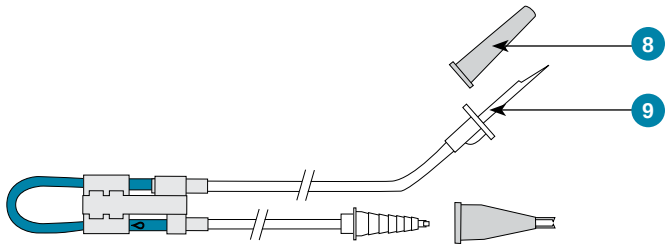


Figure 1-10 EnteraLite Infinity Spike Set

1. "💧" Symbol
2. Cassette
3. Downstream Tubing
4. Upstream Tubing
5. 500ml or 1200ml Feeding Bag
6. Barbed Enteral Adapter
7. Adapter Protective Cover
8. Spike Protective Cover
9. Spike

Symbols

Brief instructions for operation of pump as well as a brief explanation of each alarm message which pump may communicate are printed on the label attached to pump. These are not intended to be used in place of the Operator's Manual. They are simply a quick reference guide. Please read the Operator's Manual be-

.

Figure 1-11 Consult Accompanying Documents

The bag symbol is printed on pump door over port where upstream tubing enters pump.

Figure 1-12 Feeding Bag Connection

The patient symbol is printed on pump door over port where downstream tubing exits pump.

Figure 1-13 Patient Connection

EN 60601-1 Type BF degree of protection against electrical shock. No electrical connection to patient. Drop from any angle from height of 3 feet shall not damage pump operation.

Figure 1-14 TYPE BF Shock Protection

IEC 529 degree of protection against water entering the enclosure. Water jets from any direction shall have no effect.

IPX5

Figure 1-15 IEC 529

This symbol is printed on pump delivery sets. It indicates only one patient should use each disposable set.

Figure 1-16 Single Patient Use

This symbol is printed on pump delivery sets. It indicates pump delivery sets are made with materials that do not contain the plasticizer DEHP.

Figure 1-17 DEHP-free

2. DIRECTIONS FOR USE

Recommendation for First Use:
Since battery may not be fully charged when pump is received, it is recommended that battery be charged for 6 hours prior to operating on battery power (*see Page 18 for additional information*).

Priming and Loading the Disposable Set

Step 1:

- **If you are using the spike set with a vented bottle or pre-filled bag:**

  Remove protective cover from spike, and insert spike into spike adapter of formula container (*Figure 2-1*).

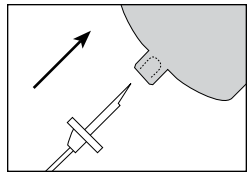


Figure 2-1 Spike Container

- **If you are using the 500ml or 1200ml disposable set:**

  Hold bag upright and pour in feeding solution (*Figure 2-2*). Close cap securely.

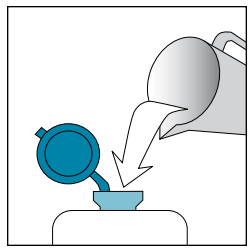


Figure 2-2 Fill Bag

NOTE: Blenderized or aggressively mixed solutions may have foam. If using this type of solution, allow it to sit for 10 to 15 minutes before pouring into bag. This will reduce the chance of an alarm due to air in the tubing.

Step 2:

Remove protective cover from barbed adapter. If using pole clamp, protective cover may be placed in the groove on back of clamp (*Figure 2-3*).

NOTE: If set is to be used with a carry pack, all air must be removed from bag and tubing. **Continue to step 3 for instructions on removing air**. If set is to be hung above pump, i.e. on an IV pole, **you may skip to step 4**.

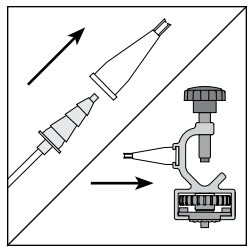


Figure 2-3 Remove Cover from Barbed Adapter / Place Cover on Pole Clamp

Step 3:
Turn bag upside down and gently squeeze. Tilt bag as needed to keep air at tubing port (*Figure 2-4*).

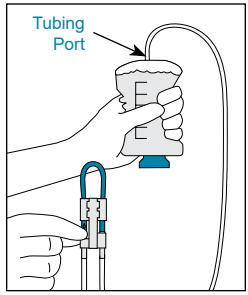


Figure 2-4 Squeeze Bag

Step 4:
Gently pinch teal colored tubing **below** "💧" symbol. Hold this position until air is removed from tubing. Gently squeeze bag at same time to assist . If does not , pinch may be too tight (*Figure 2-5*).

NOTE: Inside the teal colored tubing, below the "💧" symbol is the in-line occluder. The in-line occluder is the built-in anti device. By pinching tubing gently, the tubing moves away from the in-line occluder allowing to (*Figure 2-6*). It is important to only pinch the tubing below the "💧" symbol to avoid damaging the in-line occluder.

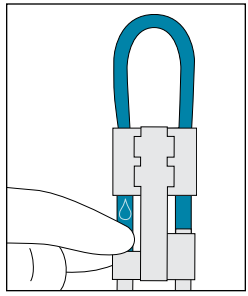


Figure 2-5 Pinch Tubing

NOTE: Air may also be removed from tubing using the pump prime feature. See step 7 for instructions on using the pump prime feature.

Step 5:
Loop silicone tubing around pump wheel stretching lightly. Seat cassette into pump (*Figure 2-7*). **Close pump door** (*Figure 2-8*).

NOTE: If 1200ml set is to be used with Mini Backpack, load set into back section of pack and thread cassette through port in bottom corner of pack prior to loading cassette into pump.

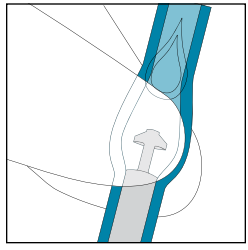


Figure 2-6 Tubing Segment Being Pinched

Step 6:
Press and hold **ON/OFF** key for 1.5 seconds to turn pump on. While pump runs through a self test, display will light and an audible alarm will sound as pump displays the nine digit serial number three digits at a time for one second each. The display will then show the letter 'R' followed by a number, which is the software revision.

Next, all segments of display will be shown for 2 seconds. **Verify all display segments and symbols are active.**

The self test is complete and pump will then display last programmed rate and will be in pause mode.

If any air is still in the tubing, continue to Step 7 to use pump prime feature.

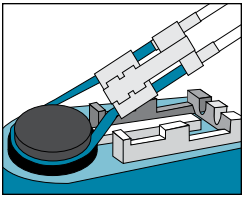


Figure 2-7 Seat Cassette

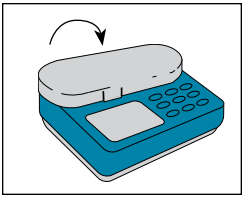


Figure 2-8 Close Pump Door

Step 7:
Press and hold **PRIME** key. Alarm will sound once and pump will begin pumping at the maximum rate of 600 ml/hr. Display will read "TO STOP LET GO" (*Figure 2-9*). Once all air is removed from tubing, release key. Pump will stop, display will revert to last programmed rate, and pump will be in pause mode.

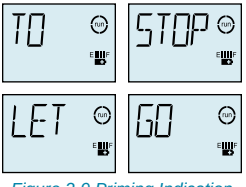


Figure 2-9 Priming Indication

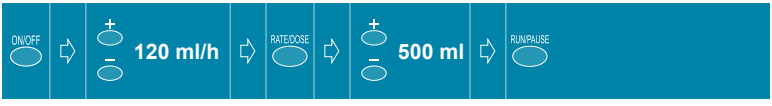
For pump operation instructions:

- For a Single Feeding Example: go to *Page 10*.
- For an Interval Feeding Example: go to *Page 13*.

Operating the Pump
A Single Feeding Example

If you want to deliver 500 ml of enteral feeding solution at a rate of 120 ml/hr and then stop the pump:

Key Sequence for "A Single Feeding Example"



Step 1:
Prepare the disposable set with enteral feeding solution as described in the Priming and Loading the Disposable Set instructions (*page 7*).

Step 2:
Hang feeding bag or container so that the bottom of bag is at or above the level of the pump door.

OR - If an EnteraLite carry pack is to be used, load pump and feeding bag into the proper compartments, securing pump, bag and tubing with the pack's straps (*Page 32*).

Step 3:
Turn pump on by pressing the **ON/OFF** key. After running the self test, display will show last programmed rate.

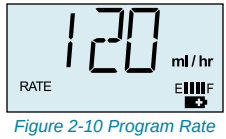


Figure 2-10 Program Rate to 120 ml/hr

Step 4:
Press the **+** or **-** key to change the rate to 120 ml/hr. Hold down either key to change rapidly (*Figure 2-10*).

Step 5:
Press the **RATE/DOSE** key to display dose. Press the **+** or **-** key until a dose of 500 ml is displayed (*Figure 2-11*).

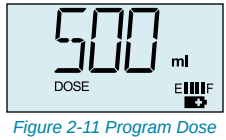


Figure 2-11 Program Dose to 500 ml

NOTE: For a single feeding the feed interval setting should be programmed to NONE (*Figure 2-12*). When you have setting rate and dose check the display to see if it reads FEED INTERVAL. If it does, press the **FEED INT** key, then press the **CLEAR** key. Display will read NONE.

Figure 2-12 Clear Feed Interval

Step 6

Connect barbed adapter to the patient's enteral feeding tube.

Step 7

Press the **RUN/PAUSE** key. Pump will begin running. Display will show programmed rate and the arcs around the run symbol will rotate (*Figure 2-13*).

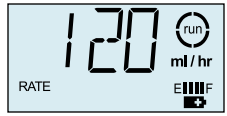


Figure 2-13 Pump is Running

While pump is running, the following may be viewed by pressing the appropriate key: Rate, Dose, and Feed Interval.

To view the amount delivered in the current feeding, press the **VOL/TOTAL** key (*Figure 2-14*). This counter will reset itself when the previously programmed dose has been completed and a new feeding is started, or if a feeding is interrupted and Rate, Dose or Feed Interval is changed.

Figure 2-14 Amount Currently Delivered

To view the amount delivered over the course of several feedings press the **VOL/TOTAL** key a second time. Display will read TOTL then the amount. This counter never resets itself. It can only be reset by the user (*Figure 2-15*).

Figure 2-15 Total Amount Delivered

While pump is running, the settings cannot be changed and the Prime feature is disabled.

If you want to stop pump at any time, press the **RUN/PAUSE** key. Display will show rate, and pump will be in pause mode. Or, turn pump off by pressing the **ON/OFF** key.

When you would like to restart pump, press the **ON/OFF** and/or the **RUN/PAUSE** key. Pump will save the memory of where it was in the feeding before stopping. Press the **RUN/PAUSE** key and pump will restart at the point where it was stopped.

NOTE: Any changes to pump settings during a feeding cycle will cause pump to start a new feeding; it will not start where it left off.

Feeding Completion:
When the dose has been completely delivered, pump will stop running, and display will read DOSE DONE. Pump will be in a pause mode until it is turned off or feeding is restarted. To clear DOSE DONE, press and hold the **ON/OFF** key for 1.5 seconds to turn pump off, or press the **RUN/PAUSE** key to put pump in pause mode. Adjustments to settings can be made at this time, or press the **RUN/PAUSE** key a second time to start another feeding using same rate, dose, and feed interval settings.

If you would prefer the alarm to sound when the dose is complete, you can change the pump dose complete alarm setting to BEEP WHEN DONE. See the User Preference Settings section (*Page 19*) for instructions to change this setting. When set to BEEP WHEN DONE, the pump will stop at the end of the feeding, beep intermittently, and display will read DOSE DONE (*Figure 2-16*). To silence alarm when the dose is complete, press and hold the **ON/OFF** key for 1.5 seconds to turn pump off, or press the **RUN/PAUSE** key to put pump in pause mode.

Figure 2-16 DOSE DONE

NOTE: To program an dose, press and hold the **+** key until display reads INF. When an dose has been programmed, pump will not alarm DOSE DONE. Pump will run continuously as long as feeding solution remains in the bag. When empty, pump will alarm NO FOOD or NO FLOW IN.

Next Feeding:
Turn pump on. Previous settings for rate, dose, and feed interval will be saved in memory. If no changes are required, verify each setting is correct and restart pump running.

NOTE: Rate, dose, and feed interval settings can be locked so that changes cannot be made. See the User Preference Settings section (*Page 19*) for instructions to change this feature.

Operating the Pump
An Interval Feeding Example

If you want to deliver 100 ml of enteral feeding solution at a rate of 50 ml/hr, and repeat this feeding every 6 hours:

Key Sequence for "An Interval Feeding Example"

Step 1:
Prepare the disposable set with enteral feeding solution as described in the Priming and Loading the Disposable Set instructions (*Page 7*).

Step 2:
Hang feeding bag or container so that the bottom of bag is at or above the level of the pump door.

OR - If an EnteraLite pack is to be used, load the pump and feeding bag into the proper compartments, securing pump, bag and tubing with the pack's straps (see *Page 32*).

Step 3:
Turn pump on by pressing the **ON/OFF** key. After running the self test, display will show last programmed rate.

Step 4:
Press the + or - key to change the rate to 50 ml/hr. Hold down either key to change rapidly (*Figure 2-17*).

Figure 2-17 Program Rate to 50 ml/hr

Step 5:
Press the RATE/DOSE key to display dose. Press the + or - key until a dose of 100 ml is displayed (*Figure 2-18*).

Step 6:
Press the FEED INT key to display the feed interval setting. Press the + or - key until 6.00 hr is displayed (*Figure 2-19*).

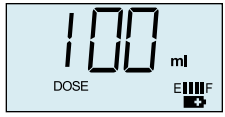


Figure 2-18 Program Dose to 100 ml

Figure 2-19 Program Feed Interval 6.00 hr

NOTE: The amount of time to complete a rate and dose combination can be by dividing the dose by the rate (Dose/Rate = Time). The number of hours to be programmed as the feed interval is the amount of time to deliver the dose plus the amount of time pump should pause. Example: 100 ml divided by 50 ml/hr equals 2 hours for feeding delivery, plus a pause of 4 hours equals a feeding interval of 6 hours (100 ml ÷ 50ml/hr = 2 hours running + 4 hours pause = 6 hours from feeding start time to start time).

Pump will calculate number of hours it will take to deliver the rate and dose combination. When the FEED INT key is pressed the available value will be compatible with that combination. In this example the available value will be 2.00 hr.

NOTE: Feed interval is displayed in hours and minutes, i.e. 5.10 = 5 hours and 10 minutes.

NOTE: Feed interval cannot be programmed if rate and dose combination requires more than 24 hours to deliver.

Step 7:
Connect barbed adapter to patient's enteral feeding tube.

Step 8:
Press the **RUN/PAUSE** key. Pump will begin running. Display will show programmed rate, the arcs around the run symbol will rotate and display will read FEED INTERVAL (*Figure 2-20*).

Figure 2-20
Pump is Running

While pump is running the following may be viewed by pressing the appropriate key: Rate, Dose, and Feed Interval.

To view the amount delivered in the current feeding, press the **VOL/TOTAL** key (*Figure 2-21*). This counter will reset itself when the previously programmed dose has been completed and a new feeding is started, or if a feeding is interrupted and Rate, Dose or Feed Interval is changed.

Figure 2-21 Amount Currently Delivered

To view the amount delivered over the course of several feedings press the **VOL/TOTAL** key a second time (*Figure 2-22*). Display will read TOTL then the amount. This counter never resets itself, it can only be reset by the user.

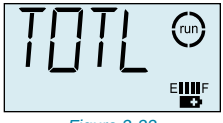


Figure 2-22
Total Amount Delivered

While pump is running, the settings cannot be changed and the Prime feature is disabled.

If you want to stop pump at any time, press the **RUN/PAUSE** key. Display will show rate, and pump will be in pause mode. Or, turn pump off by pressing the **ON/OFF** key.

When you would like to restart pump, press the **ON/OFF** and/or the **RUN/PAUSE** key. Pump will save the memory of where it was in the feeding before stopping. Press the **RUN/PAUSE** key and pump will restart at the point where it was stopped.

NOTE: Any changes to pump settings during a feeding cycle will cause pump to start a new feeding; it will not start where it left off.

Feeding Completion:

When the dose has been completely delivered, pump will stop running and display will read NEXT DOSE then give the number of hours and minutes until feeding will be repeated (*Figure 2-23*). Display will show the run symbol without the arcs rotating around it. Pump will repeat this cycle until disposable set is empty or until it is stopped by user.

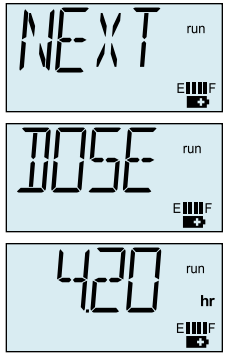


Figure 2-23
Time Until Next Feeding

NOTE: When a feed interval has been programmed, pump will not alarm DOSE DONE. Pump will cycle continuously as long as feeding solution remains in the bag. When empty, pump will alarm NO FOOD or NO FLOW IN.

To stop feeding, press the **ON/OFF** key for 1.5 seconds to turn pump off or press the **RUN/PAUSE** key to put pump in pause mode. Adjustments to settings can be made at this time.

New Feeding Cycle:

Turn pump on. Previous settings for rate, dose, and feed interval will be saved in memory. If no changes are required, verify each setting is correct and restart pump running.

NOTE: Rate, dose, and feed interval settings can be locked into place so that changes cannot be made. See the User Preference Settings section (*Page 19*) for instructions to change this feature.

The Battery
Running on Battery Power

EnteraLite will run for 24 hours at a rate of 125 ml/hr. A fully depleted battery takes approximately 6 hours to fully charge.

When pump is running on battery power the battery symbol will appear in the display (*Figure 2-24*).

Figure 2-24 Battery Power Indicator

The segments or blocks between E and F represent the fuel gauge of the battery. Each block represents approximately 6 hours of charge. When each bar is half spent, it will begin to indicating approximately 3 hours of charge is left for that bar. When the last block is gone, the battery symbol will blink to indicate there is approximately 1 hour of charge left. Display will LOW BATT every 3 seconds and pump will beep every 2 seconds to remind user of low battery condition. When battery is fully depleted pump will turn off automatically.

NOTE: The battery life is an approximation based on a fully charged battery and a rate of 125 ml/hr. Higher rates will run the battery down faster, while lower rates and interval feedings will allow the battery to last longer. Battery life degrades over time.

The Battery
Charging the Battery

To charge the battery, insert plug from AC Adapter/Charger into port on the left side of pump. Plug charger into a wall outlet.

Pump will charge whether it is turned off or running.

When charger is plugged in and charging, the plug symbol will appear in the display and the fuel gauge will display four bars scrolling from E to F. This pattern continuously repeats while pump is charging (*Figures 2-25a through 2-25e*). When bars stop scrolling pump is done charging.

To check the status of battery during charging, disconnect charger from pump and turn on pump.

NOTE: If pump shut down due to low battery, charging less than 10 minutes may result in an ER99 alarm. Fully charge battery if depleted (*see page 22 to clear alarm*).

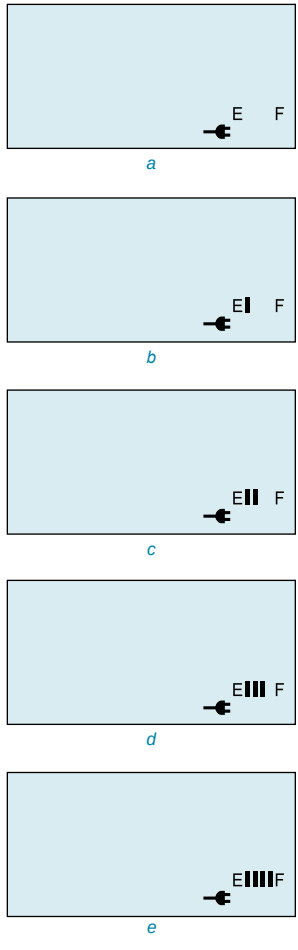


Figure 2-25 Fuel Gauge

User Preference Settings

There are four user preference settings. These set-
's needs.

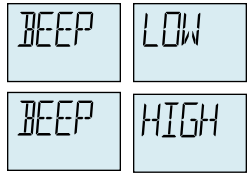


Figure 2-26 Alarm Volume Settings BEEP LOW and BEEP HIGH

Alarm Volume:

The alarm has two volumes, high or low. Pump default is low (*Figure 2-26*).

Settings Lock:

This allows user to set a rate, dose, and feed interval and then lock those settings so they cannot be changed unintentionally. This will also lock the volume counters from being unintentionally cleared. Pump default is unlocked (*Figure 2-27*).

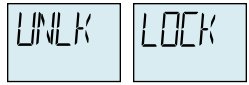


Figure 2-27 Settings Lock UNLK and LOCK

Dose Done:

There are two settings for the DOSE DONE alarm: MUTE WHEN DONE or BEEP WHEN DONE. Pump default is MUTE WHEN DONE (*Figure 2-28*).

Figure 2-28 Dose Done Settings BEEP WHEN DONE and MUTE WHEN DONE

Backlight:

To conserve battery life, the backlight will turn off automatically 10 seconds after the last key has been pressed. However, while pump is connected to an A/C current the backlight settings can be adjusted. The light can be set to ON or OFF. With the ON setting the backlight will remain on the entire time pump is plugged in to a live power outlet. With the OFF setting, the backlight will turn on when a key is pressed and turn off 10 seconds after the last key has been pressed. Pump default is ON (*Figure 2-29*).

NOTE: Regardless of setting, the backlight will always turn off 10 seconds after pump is turned off.

Figure 2-29 Backlight Settings LITE OFF and LITE ON

To adjust these settings:

Key Sequence for "Adjusting User Preference Settings"

Step 1:
With pump turned off, press and hold for 1.5 seconds the **+ and** the **ON/OFF** keys at the **same time**. Pump will beep and then display the words BEEP HIGH or BEEP LOW.

Press the **+** key to change to HIGH or the **-** key to change to LOW. Pump will give a triple beep when the **+** or **-** keys are pressed and setting will change. If setting is as desired, do not press either key.

Step 2:
Press the **PRIME** key. Display will read UNLK (unlocked) or LOCK (locked).

Press the **+** key to change to LOCK (locked) or the **-** key to change to UNLK (unlocked). If setting is as desired, do not press either key.

Step 3:
Press the **PRIME** key again. Display will read MUTE WHEN DONE or BEEP WHEN DONE.

Press the **+** key to change to BEEP WHEN DONE or the **-** key to change to MUTE WHEN DONE. If setting is as desired, do not press either key.

Step 4:
Press the **PRIME** key again. Display will read LITE ON or LITE OFF.

Press the **+** key to change to LITE ON or the **-** key to change to LITE OFF. If setting is as desired, do not press either key.

Step 5:
Press the **ON/OFF** to turn pump off. Setting changes will be saved automatically.

3. ALARMS, MESSAGES, AND INDICATIONS

Following is a list of all alarms, display messages, and indications that are used by the EnteraLite enteral feeding pump. Each alarm, message, or indication is described in detail on the following pages:

Should any of these alarms or indications continue after troubleshooting, contact your healthcare provider for pump service.

Alarms

ER01 - ER99 or ERRA - ERRZ (*Figure 3-1*)

Pump will sound a continuous beep and display will read ER followed by a two digit number or ERR followed by a letter to indicate a self-test has failed.

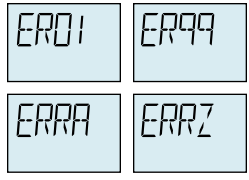


Figure 3-1 ER01 - ER99 or ERRA - ERRZ Alarm

To clear alarm: Turn the pump off and then back on.

WARNING: If an error occurs (ER01 - ER99 or ERRA - ERRZ will appear in display), all settings and volume counters should be checked and veri-

LOAD SET (*Figure 3-2*)

Pump will sound a dual tone beep repeatedly and display will read LOAD SET.

Figure 3-2 LOAD SET Alarm

Why: This alarm will sound when pump attempted to run with the set improperly loaded or missing.

To correct the problem: Press the **RUN/PAUSE** key to silence alarm and place pump in pause mode, then check the following:

1. An EnteraLite disposable set is loaded into pump properly and door is closed.
2. Check cassette receptacle for cleanliness, especially around pressure sensors. If cleaning is necessary, refer to *CHAPTER 5 - CLEANING* (*Page 31*).

LOW BATT (*Figure 3-3*)

When 1 hour or less of battery life is available, display will LOW BATT every 3 seconds and pump will beep every 2 seconds to indicate battery is low and pump will soon stop running.

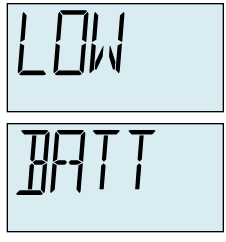


Figure 3-3 LOW BATT Alarm

To correct the problem: Plug in AC Adapter/ Charger to recharge battery.

NO FLOW IN (*Figure 3-4*)
Pump will sound a dual tone beep repeatedly and display will read NO FLOW IN.

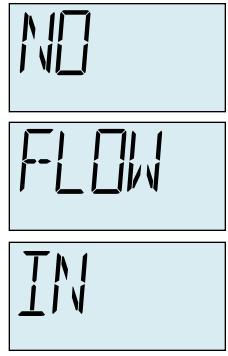


Figure 3-4
NO FLOW IN Alarm

Why: This alarm has occurred because pump has detected blockage in the set between pump and bag.

To correct the problem: Press the **RUN/PAUSE** key to silence alarm and place pump in pause mode, then check the following:

1. Check tubing for kinks or formula clumps. Correct blockage.

2. Check cassette receptacle for cleanliness, especially around the pressure sensors. If cleaning is necessary, refer to *CHAPTER 5 - CLEANING* (*Page 31*).

NO FLOW OUT (*Figure 3-5*)
Pump will sound a dual tone beep repeatedly and display will read NO FLOW OUT.

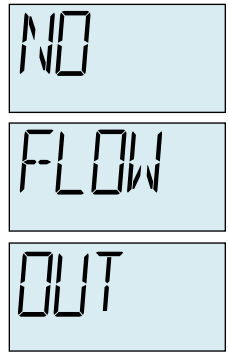


Figure 3-5
NO FLOW OUT Alarm

Why: This alarm has occurred because pump has detected a blockage in the set between pump and patient.

To correct the problem: Press the **RUN/PAUSE** key to silence alarm and place pump in pause mode, then check the following:

1. Check tubing for kinks or blockages. Remove kink or blockage.

2. Check cassette receptacle for cleanliness, especially around pressure sensors. If cleaning is necessary, refer to *CHAPTER 5 - CLEANING* (*Page 31*).

3. Back pressure from patient may also cause this alarm. Discuss with physician.

NO FOOD (*Figure 3-6*)
Pump will sound a dual tone beep repeatedly and display will read NO FOOD.

Figure 3-6
NO FOOD Alarm

Why: This alarm has occurred because pump has detected air in the tubing. It takes approximately 1 ml of air, which is approximately 5 inches (12.7 cm) in length entering the teal colored tubing to cause an alarm.

To correct the problem: Press the **RUN/PAUSE** key to silence alarm and place pump in pause mode, then check the following:

1. Check feeding bag for food. If it is empty, bag and prime the set to remove air from the bag and tubing.

2. Check tubing for air bubbles. If bag is full but air is present in the tubing, disconnect set from patient, press and hold the **PRIME** key until air bubble has moved to the end of the tubing.

3. Check cassette receptacle for cleanliness, especially around the air sensor. If cleaning is necessary, refer to *CHAPTER 5 - CLEANING* (*Page 31*).

4. Check that an EnteraLite disposable set is loaded into pump properly and door is closed.

5. Check disposable set for worn tubing. If it is worn, replace with a new set.

NOTE: Blenderized or aggressively mixed solutions may have foam. Small foam bubbles may collect in the air sensor area and must be cleared in order to avoid a NO FOOD alarm. Allowing foamy solutions to sit for 10 to 15 minutes after mixing and prior to pouring into the bag will reduce the amount of foam.

PUSH RUN TO FEED (*Figure 3-7*)
Pump will sound a dual tone beep repeatedly and display will read PUSH RUN TO FEED.

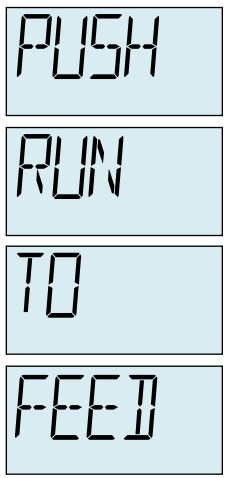


Figure 3-7 PUSH RUN TO FEED Alarm

Why: This alarm has occurred because pump has been in pause mode for 2 minutes.

To correct the problem: Press the **RUN/PAUSE** key to silence alarm and place pump in pause mode again. Program and use pump or press the **ON/OFF** key to turn it off.

Figure 3-8
SHUT DOOR Alarm

SHUT DOOR (*Figure 3-8*)
Pump will sound a dual tone beep repeatedly and display will read SHUT DOOR. Note: This alarm is available only on select pumps.

Why: This alarm has occurred because the pump door was opened while pump was running.

To correct the problem: Press the **RUN/PAUSE** key to silence alarm and place pump in pause mode then shut the door. Check door is latched securely. If door will not stay closed, check door latch and latch pocket on pump are not broken or cracked.

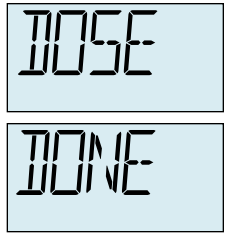


Figure 3-9
DOSE DONE Message

Messages

DOSE DONE (*Figure 3-8*)
This message indicates a single feeding dose has been delivered.

To clear pump: Either press the **ON/OFF** key to turn pump off, or press the **RUN/PAUSE** key to put pump in pause mode before starting another feeding.

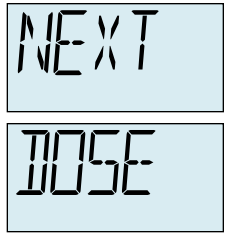


Figure 3-10
NEXT DOSE Message

NEXT DOSE (*Figure 3-9*)
If the interval feeding feature is in use, between feedings display will read NEXT DOSE ##.## hr. (##.##, indicates the time in hours and minutes until the next dose begins.)

If the currently programmed feeding is not desired, either press the **ON/OFF** key to turn pump off or press the **RUN/PAUSE** key to place pump in pause mode where adjustments can be made to the settings.

Indications

CHEK (*Figure 3-11*)

Pump will sound a dual tone beep once and CHEK, RATE, DOSE, and FEED INTERVAL will all blink on the display.

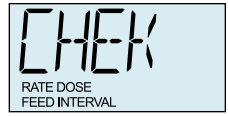


Figure 3-11
CHEK Indication

Why: This alarm sounds when the RATE, DOSE, and FEED INTERVAL are not compatible. As discussed in the Interval Feeding Example (Page 13), pump divides the dose by the rate to determine the amount of time required for the dose to be delivered. Based on the RATE and DOSE combination, when the FEED INTERVAL is being programmed, the value available will be the value that is compatible with the RATE and DOSE settings. Should the RATE or DOSE be changed after the FEED INTERVAL has been programmed, and the combination requires the delivery time to be longer than the amount of time programmed as the FEED INTERVAL, user will receive this alarm.

For example, if rate is 100 ml/hr, and dose is 200 ml, then the pump will take 2 hours to deliver the dose. The available FEED INTERVAL will be 2.00 hr. However, if the dose is changed to 300 ml, the dose will now take 3 hours to deliver and therefore 2.00 hr is an impossible FEED INTERVAL. If the **RUN/PAUSE** key is pressed before the FEED INTERVAL has been changed (the next available value being 3.00), the pump will give the CHEK alarm.

To correct the problem: Press the RUN/PAUSE key to put pump in pause mode, and reprogram the settings.

TO STOP LET GO (*Figure 3-12*)

When pressing and holding the **PRIME** key, alarm will sound once, pump will begin pumping at maximum rate of 600 ml/hr and display will read “TO STOP LET GO”.

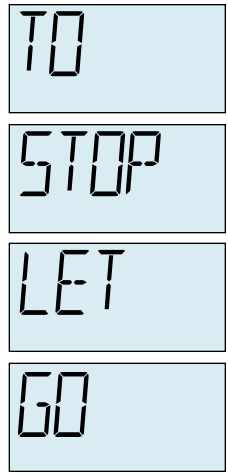


Figure 3-12
Priming Indication

To stop priming: Release the **PRIME** key.

Battery Doesn't Hold Its Charge

Battery will lose its charge if stored for a long period of time or if stored at high temperatures (such as in an automobile during summer).

To correct the problem: Recharge the battery. If the problem continues during regular use, contact your healthcare provider for service.

Battery Doesn't Charge

If the battery symbol and the E and F of the fuel gauge (*Figure 3-13*) are while the pump is plugged in, the battery is not charging.

Figure 3-13 Battery Symbol and the E and F of the Fuel Gauge

To correct the problem: Contact your healthcare provider for service.

Charger Installed but No Plug Symbol Visible

If the plug symbol does not display after the AC Adapter/Charger is plugged into pump and a live power outlet, then charger is not charging battery.

To correct the problem: Check the following:

- Verify that the wall outlet works by plugging in another appliance, such as a lamp.
- Charger is connected properly.

If this does not correct the problem, pump or charger may be damaged. Contact your healthcare provider for service.

NOTE: There are no user serviceable or replaceable components inside the En-

.

4. TROUBLESHOOTING GUIDE

NO FOOD Alarm

If re-priming of the pump delivery set is required, it is advisable to disconnect the enteral adapter from the patient's feeding tube while re-priming.

1. Is bag of pump delivery set empty?

- **YES**
- **NO**

2. Is air present in the tubing?

- **YES** → Has all air been removed from **bag** of pump delivery set?
- **NO**

IF NO: Manually prime tubing by turning bag upside down, gently squeezing lower half of bag while pinching the teal colored tubing just below the drop symbol. Hold this position until all air is removed from bag and tubing.

IF YES: Press and hold the PRIME key to move air in the tubing past pump delivery set cassette and resume feeding.

3. Is formula blenderized or aggressively mixed?

- **YES** → Let formula sit for 10 - 15 minutes before preparing pump delivery set for feeding. If foam is present in tubing, by priming pump delivery set either manually or with the pump and resume feeding.
- **NO**

4. Are air bubbles trapped inside the cassette?

- **YES** → Remove tubing from pump and manually prime tubing by turning bag upside down, gently squeezing lower half of bag while pinching the teal colored tubing just below the drop symbol. Hold this position until all air has passed through the teal segment of tubing.
- **NO** → **If alarm continues, contact your healthcare provider or ZEVEX Customer Service at (800) 970-2337 for assistance.**

ERRA, ERRD, ERRF, ER01, ER02, or ER03 Alarms

1. Was pump door open while pump was turned on or while running?

- **YES / UNSURE** → Turn pump off. Unload and reload delivery set cassette. Make sure door is closed securely, then turn pump back on.
- **NO** → **If alarm continues, contact your healthcare provider or ZEVEX Customer Service at (800) 970-2337 for assistance.**

LOAD SET Alarm

1. Is door closed securely?	NO / UNSURE	Turn pump off. Unload and reload delivery set cassette. Make sure door is closed securely. Turn pump back on.
NO		
2. Is door cracked or tab on inside of door broken?	YES	Contact your healthcare provider or ZEVEX Customer Service at (800) 970-2337 to receive a new door.
	NO	Contact your healthcare provider or ZEVEX Customer Service at (800) 970-2337 for assistance.

NO FLOW IN or NO FLOW OUT Alarms

- **NO FLOW IN** - Occlusion between delivery set and pump.
- **NO FLOW OUT** - Occlusion between pump and patient.

1. Is delivery set tubing pinched, kinked, or clogged?	YES	Check delivery set for obstructions or kinks in tubing. Correct blockage and resume feeding.
NO		
2. Is tab on inside of door broken?	YES	Contact your healthcare provider or ZEVEX Customer Service at (800) 970-2337 to receive a new door.
NO		
3. Is pressure sensor region of cassette receptacle clean?	NO	Clean pressure sensor area with a cotton swab, soft cloth or dampened sponge, or wash entire pump under running water. Do not use abrasive materials or harsh chemicals.
YES		
4. Are there visible signs of damage to pressure sensors area?	YES	Contact your healthcare provider or ZEVEX Customer Service at (800) 970-2337 to return pump for service.
	NO	Prime set and start pump. If alarm continues, contact your healthcare provider or ZEVEX Customer Service at (800) 970-2337 for assistance.

Charging Problems

1. Is A/C adapter charger plugged into wall outlet and pump properly?	NO / UNSURE	Check connections for both wall plug and pump adapter. Green indicator light on charger wall plug should be illuminated and pump display should have plug symbol with scrolling bars between E and F of fuel gauge. When pump is fully charged, bars will stop scrolling.
YES		
2. Is wall outlet functioning properly?	NO / UNSURE	Plug another device into outlet to verify outlet is functioning properly.
YES		
3. Does the charger adapter appear to have any damage?	YES	Contact your healthcare provider or ZEVEX Customer Service at (800) 970-2337 to receive a new charger.
NO		
4. Does the charger port appear to have any damage including bent or missing pins?	YES	Contact your healthcare provider or ZEVEX Customer Service at (800) 970-2337 to return pump for service.
NO		
5. Is Battery Symbol and E and F of fuel gauge flashing?	YES	Contact your healthcare provider or ZEVEX Customer Service at (800) 970-2337 to return pump for service.
	NO	If condition continues, contact your healthcare provider or ZEVEX Customer Service at (800) 970-2337 to return pump for service.

5. CLEANING

WARNING: To avoid electrical shock, never clean pump or EnteraLite AC Adapter/Charger with charger plugged into an outlet or pump turned on.

WARNING: Make sure the EnteraLite AC Adapter/Charger is completely dry before plugging into an electrical outlet.

To clean the EnteraLite Infinity enteral feeding pump:

Pump may be cleaned with warm soapy water (standard dish soap) and a non-abrasive sponge or soft cloth. Use a cotton swab to clean pathways of cassette receptacle and to remove teal silicon residue from pump wheel roller pins.

OR - Apply one of the following solutions for approximately 10 minutes, then wipe pump clean with a damp cloth or sponge:

- 5% bleach and water solution
- Multipurpose household disinfectant cleaner

Rinse pump by holding under a stream of warm water. Then, dry with a clean cloth.

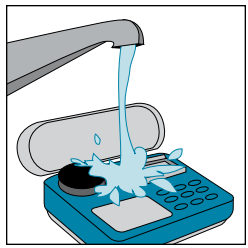


Figure 5-1 Rinsing Pump Under Stream of Water

NOTE: Avoid harsh cleaners/disinfectants. They may cause damage to pump surfaces and may affect pump functionality. ZEVEX has tested the following disinfectants for acceptability for cleaning/disinfecting the EnteraLite pump. These cleaning products are categorized below:

Acceptable	Unacceptable
Metrex CavaCide	Ball Ruthless
MetriCide 28	Wex-Cide 128
Vesphene IIse	Alcohol
5% Bleach and Water Solution	
Warm Soapy Water (Standard Dish Soap)	

To clean the Carrying Packs:

The EnteraLite packs are machine-washable. Use cold water and gentle cycle, whenever possible. Hang to dry.

To clean the AC Adapter/Charger:

EnteraLite AC Adapter/Charger normally does not require cleaning. When desired, a dry or slightly damp cloth may be used to clean the outside surface of AC Adapter/Charger while it is disconnected from the wall outlet.

6. ACCESSORIES

EnteraLite Infinity AC Adapter/Charger

Order Number INFCH01

Plug AC Adapter/Charger into a wall outlet and plug connector into pump to operate on AC power and/or recharge battery (*figure 6-1*).

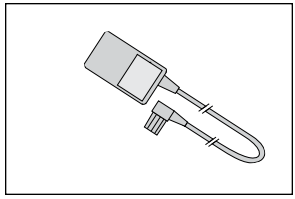


Figure 6-1 AC Adapter/Charger

EnteraLite Infinity Pole Clamp

Order Number Z-11981

Thread bolt into receptacle on the back of pump and tighten gray wheel to mount pump on clamp. If gray wheel is slightly loosened, pump can be rotated to snap into different positions. Retighten gray wheel when pump is in the desired position. Tighten black wheel to mount clamp on a pole (*figure 6-3*).

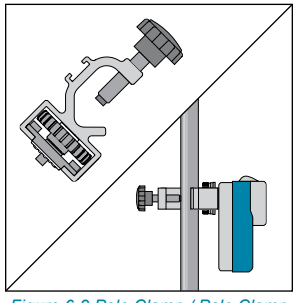


Figure 6-2 Pole Clamp / Pole Clamp with Pump Attached to IV Pole

EnteraLite Infinity Adjustable Angle Pole Clamp

Order Number 26772-001

Thread bolt into receptacle on the back of pump and tighten knob to mount pump on clamp. If knob is slightly loosened, pump can be rotated to snap into different positions. Retighten knob when pump is in the desired position. Tighten black wheel to mount clamp on a pole. Pull pin to adjust angle (*figure 6-3*).

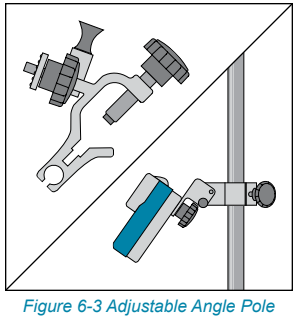


Figure 6-3 Adjustable Angle Pole Clamp / Adjustable Angle Pole Clamp with Pump Attached to IV Pole

EnteraLite Infinity Mini Backpack

Order Numbers PCK1001 (red), PCK1002 (light green and gray), PCK1003 (black and gray), PCK1004 (specialty pack: call for current colors)

Pack holds EnteraLite with a 500 ml bag in the front section or can accommodate a 1200 ml bag in the rear section. Pump is secured with a Velcro® strap. A Velcro strap secures the neck of the 500 ml or 1200 ml bag. The tubing is loaded into pump and any excess length of tubing can be secured with a Velcro tab. The downstream tubing then feeds through a port at bottom of pack (either side). Also included in this pack is a pocket that may be used to hold an ice pack. *Dimensions: 13" H x 8" W x 4.5" D. Approximate weight when loaded with pump and 500ml delivery set filled with 500ml of water: 2.9 lbs.; 1200ml delivery set filled with 1200ml of water: 4.5 lbs.*

Figure 6-4 Mini Backpack

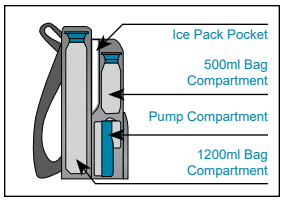


Figure 6-5 Mini Backpack (Cutaway View of Internal Compartments)

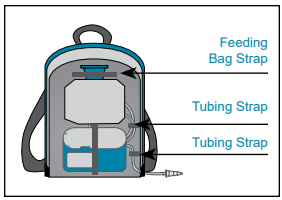


Figure 6-6 Mini Backpack (Cutaway View of Internal Straps)

EnteraLite Infinity Super-Mini Backpack

Order Numbers PCK2001 (black), PCK2002 (light green and gray), PCK2003 (Specialty Pack: call for current colors)

Pack holds EnteraLite with a 500 ml bag. Pump is secured with a Velcro strap. A Velcro strap secures the neck of the 500 ml bag. The tubing is loaded into pump and any excess length of tubing can be secured with a Velcro tab. The downstream tubing then feeds through a port at bottom of pack (either side). Dimensions: 9.5" H x 8" W x 4" D. Approximate weight when loaded with pump and 500ml de-

Figure 6-7 Super-Mini Backpack

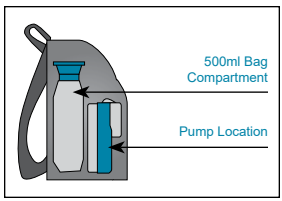


Figure 6-8 Super-Mini Backpack (Cutaway View of Internal Compartments

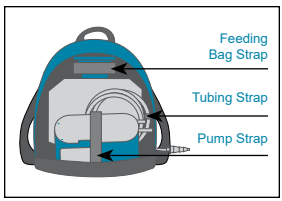


Figure 6-9 Super-Mini Backpack (Cutaway View of Internal Straps)

EnteraLite Infinity Waist Pack

Order Numbers PCK3001 (black and gray)

Pack holds EnteraLite with a 500 ml bag. Pump is secured with an elastic strap. A Velcro strap secures the neck of the 500 ml bag. The tubing is loaded into pump and any excess length of tubing can be secured with a Velcro tab. The downstream tubing then feeds through a port at bottom of pack (either side).

Dimensions: 7” H x 11” W x 3” D

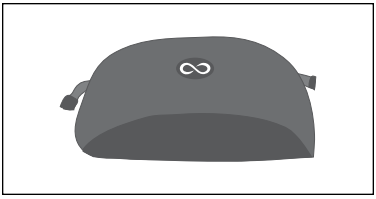


Figure 6-10 Waist Pack

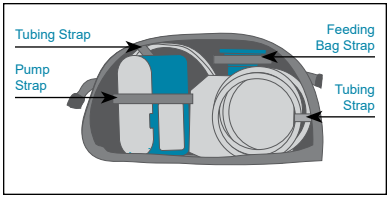


Figure 6-11 Waist Pack (Cutaway View of Internal Compartment and Straps)

EnteraLite Infinity Backpack

Order Numbers PCK4001 (black and gray)

Pack holds EnteraLite with a 500 ml bag or a 1200 ml bag. Pump is secured with a Velcro® strap. A Velcro strap secures the neck of the 500 ml or 1200 ml bag. The tubing is loaded into pump and any excess length of tubing can be secured with a Velcro tab. The downstream tubing then feeds through a port at bottom of pack (either side). Also included in this pack is a pocket that may be used to hold an ice pack. *Dimensions: 17” H x 8” W x 4” D.*

Figure 6-12 Backpack

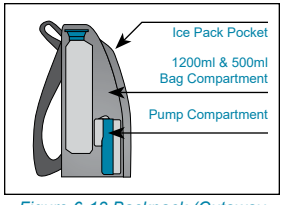


Figure 6-13 Backpack (Cutaway View of Internal Compartments)

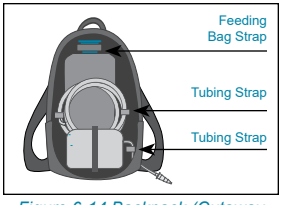


Figure 6-14 Backpack (Cutaway View of Internal Straps)

7. SPECIFICATIONS

SIZE	Pump Dimensions: Pump Weight:	1.95” H x 5.65” W x 4.05” D 14.4 oz (411.0 g)
BATTERY	Type: Life: Charge Time: Charge Level Indicator Compact Wall Charger	Lithium Ion 24 hours @ 125 ml/hr approximately 6 hours
DISPLAY	Backlit LCD	
OPERATING ORIENTATION	Any	
FLOW RATE	Range: Increment: Accuracy:	0.1 - 600 ml/hr 0.1 ml/hr from 0.1 ml/hr to 10 ml/hr 1 ml/hr from 10 ml/hr to 600 ml/hr ± 5% (*see page 37*)
DOSE	Range: Increment:	 0.1 ml from 0.1 - 10 ml 1 ml from 10 - 1000 ml 10 ml from 1000 - 3000 ml
VOLUME DISPLAY	Current Dose Status Accumulated	
INTERVAL FEED	Interval Feed Indication Displays Time to Next Feed	
PROGRAM MEMORY RETAINED	When Pump is on or off	
PEDIATRIC USE	Yes	
PRIME	Yes	
DISPOSABLE SET FEATURES	Automatic No Drip Chamber DEHP-free	

ALARMS	CHEK	Programming error - Incompatible RATE, DOSE, and FEED INTERVAL settings
	ER01 - ER99 or ERRA - ERRZ	Self-test error
	LOAD SET	Set not loaded properly
	LOW BATT	Battery Low
	NO FLOW IN	Upstream occlusion -5 psi (-34 kPa) Tolerance = ± 3psi (21 kPa) psi (pounds per square inch) kPa (kilopascals)
	NO FLOW OUT	Downstream occlusion, 12 psi (83 kPa) Tolerance = ± 3psi (21 kPa) psi (pounds per square inch) kPa (kilopascals)
	NO FOOD	Air in tubing - bag or set may be empty
	PUSH RUN TO FEED	Pump unused for 2 minutes
	SHUT DOOR	Door opened while pump was running
ACCESSORIES	AC Adapter/Charger Multi-position Pole Clamp (rotates 360°)	
WARRANTY	2 years	
OPERATING ENVIRONMENT	Temperature: Humidity:	41 °F to 104 °F (5 °C to 40 °C) 30% to 95% noncondensing
STORAGE ENVIRONMENT	Temperature: Humidity:	-4 °F to 149 °F (-20 °C to 65 °C) 10% to 95% noncondensing
CLASSIFICATION INFORMATION	Type BF Applied Part	
		AC Adapter / Charger – Class II

8. IMPORTANT PEDIATRIC CONSIDERATIONS

EnteraLite can be used on pediatric patients if the of pump meet delivery requirements of the patient. The of primary importance are:

- The rate range of EnteraLite is 0.1 ml/hr to 10 ml/hr in 0.1 ml/hr increments and 10 ml/hr to 600 ml/hr in 1 ml/hr increments.
- The EnteraLite pump delivers the dose at the rate within +/- 5%
  -
  - cm) with respect to center of rotor.

Note: Head height affect on accuracy is shown below (*figure 8-1*).

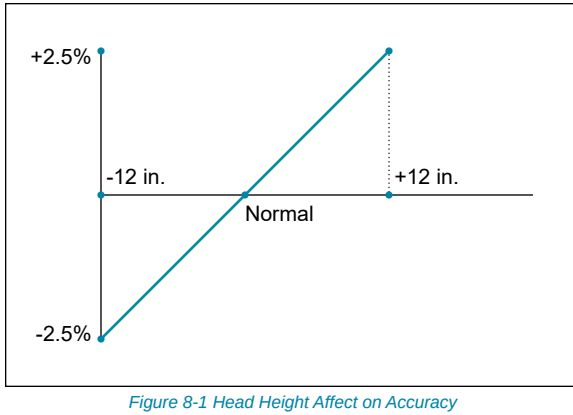


Figure 8-1 Head Height Affect on Accuracy

If these meet the required feed regimen, EnteraLite can be used to deliver enteral formulas to pediatric patients. ALWAYS VERIFY RATE, DOSE AND FEED INTERVAL BEFORE PROCEEDING TO FEED.

9. ADDITIONAL TECHNICAL INFORMATION

Electromagnetic Emissions/Interference

Electromagnetic emissions may affect the operation of any electronic medical device, including enteral feeding pumps.

The EnteraLite will not be affected by electromagnetic emissions in most environments. However, some electromagnetic produced by personal communication equipment, household appliances, or occupational tools may cause electromagnetic interference (EMI) which can affect the pump.

Possible sources of electromagnetic interference with electronic medical devices include, but are not limited to: cellular phones, cordless telephones, microwave ovens, anti-theft/security systems, blenders, and high-powered tools (i.e. drills, saws, chain saws). If electromagnetic emitting devices are operated within one yard/meter of the EnteraLite , the pump may automatically shut off and settings may return to their default values. Check the pump regularly if operating near sources of electromagnetic emissions.

The EnteraLite can safely be operated on commercial aircraft and is designed in accordance with EN 60601-1-2, EN 60601-1-4 and RTCA DO160D standards for electromagnetic emissions and immunity.

<table>
<tr><th colspan="3">Guidance and manufacturer's declaration - electromagnetic emissions
below. e that it is used
in such an environment.</th></tr>
<tr><th>Emissions Test</th><th>Compliance</th><th>Electromagnetic environment - guidance</th></tr>
<tr><td>RF emissions
CISPR 11</td><td>Group 1</td><td rowspan="2">The EnteraLite uses energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.</td></tr>
<tr><td>RF emissions
CISPR 11</td><td>Class B</td></tr>
<tr><td>Harmonic emissions
IEC 61000-3-2</td><td>Class A</td><td rowspan="2">The EnteraLite is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.</td></tr>
<tr><td>Voltage

emissions
IEC 61000-3-3</td><td>Complies</td></tr>
</table>

EnteraLite Infinity Disposable Set Displacement

EnteraLite Disposable Set displaces approximately 15ml of when primed. Approximately 3.5 ml of air is drawn into the tubing before the enteral pump detects bag is empty. Therefore, approximately 11.5 ml of remains in the disposable set when pump stops feeding.

Routine Maintenance

There are no user serviceable parts or routine calibration or adjustment procedures required for EnteraLite . All service requests should be referred to ZEVEX technical service.

10. WARRANTY

Solely for the of the original buyer, ZEVEX INCORPORATED (“ZEVEX”), warrants all new EnteraLite products of its manufacture to be free from defects in material and workmanship, and will replace or repair, F.O.B., at its factory in Salt Lake City, Utah, or other location designated by ZEVEX, any EnteraLite In- products returned to it within twenty-four (24) months of original purchase by the buyer. Such repair or replacement shall be free of charge.

ZEVEX warrants to the original buyer, all repaired or replaced products to be free from defects in material and workmanship and will replace or repair such products F.O.B., at its factory in Salt Lake City, Utah, or other location designated by ZEVEX. Such repair or replacement shall carry a warranty of ninety (90) days from the date of repair or replacement or the balance of the new product warranty as described above, whichever is greater.

This Warranty applies to all EnteraLite products manufactured by ZEVEX and is the ONLY WARRANTY GIVEN FOR THE SALE OF PRODUCTS OR SERVICES. NO WARRANTIES IMPLIED IN LAW, INCLUDING, BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, SHALL APPLY. ZEVEX WILL BE LIABLE, IN ANY EVENT, ONLY FOR THE PURCHASE PRICE OF THE DEFECTIVE PRODUCT, BUT NOT FOR ANY CONSEQUENTIAL DAMAGES.

This Warranty may not be amended or otherwise changed, except by a EX.

ZEVEX, Inc. voids the warranty if the EnteraLite pump is opened or tampered with in any way without prior authorization from ZEVEX, Inc.

LIST OF FIGURES

WHO TO CALL

Additional Information:

YOUR HEALTHCARE PROVIDER:

_____

_____

_____

_____

_____

YOUR PHYSICIAN:

_____

_____

_____

_____

_____

ZEVEX Incorporated
4314 ZEVEX Park Lane
Salt Lake City, Utah 84123 USA
Customer Service and Technical Support: (800) 970-2337
www.zevex.com

INDEX

Symbols

A

B

C

D

CARELINC
Home Medical Equipment & Supply

OXYGEN CALL LIST

☐ Monday ☐ Tuesday ☐ Wednesday ☐ Thursday ☐ Friday

☐ ***Automatic Stop*** ☐ Call Weekly ☐ Every 2 Weekly ☐ Call 6 months ☐ Call Annually

(except MCR 3-5 yr customers, identify who called in the order and how much they have left)

Note:
1. Customers must be aware of their delivery day. They should call before noon on the business before their delivery day. We should not have "will call us" customers! After the first month, homefill **and** night time customers **with** internal filter concentrators will be called and have a home PMI at least every 6 months. Night time customers **without internal filters** must have a home PMI annually.
2. When making oxygen calls, if a customer only has 1-2 empty tanks, see if they have enough full tanks to last them another week.
3. Check on all **repeat supplies** with every 6 month / annual check. I.e. neb kits and filters, cpap / bipap supplies, etc
4. **Confirm** address, insurance and physician information with every supply order.

Name: _____ Phone: _____
(always make calls while looking at and updating the customers information in the computer)

(circle) **OXL** **OXQ** **OXM** **OXE** **OXD** **OXC** **OXB**

(circle) Home-Fill Cylinder: **Continuous** **Conserver** or **Helios** or **Conserver**

Comments/Supplies: _____

Other Equipment: _____

(circle) Rental Air Compressor with internal filter or **Rental Enteral Pump**

Annual check due_____ Form ADFM024 initiated _____/_____/_____ By: _____ PMI Completed date _____/_____/___

Annual check due_____ Form ADFM024 initiated _____/_____/_____ By: _____ PMI Completed date _____/_____/___

(use form ADFM024 for all oxygen set ups, all rental swaps, and rental equipment checks)

Concentrator Set up date _____ **internal filter = every 6 months / no internal filter = annually**

Physicians order: LPM _____Duration_____ (check most current prescription / CMN on on-base, see DTWI004.)

PMI check due _____ Form ADFM024 initiated _____/_____/_____ By: _____ PMI Completed date _____/_____/____

PMI check due _____ Form ADFM024 initiated _____/_____/_____ By: _____ PMI Completed date _____/_____/____

PMI check due _____ Form ADFM024 initiated _____/_____/_____ By: _____ PMI Completed date _____/_____/____

PMI check due _____ Form ADFM024 initiated _____/_____/_____ By: _____ PMI Completed date _____/_____/____

PMI check due_____ Form ADFM024 initiated _____/_____/_____ By: _____ PMI Completed date _____/_____/_____

PMI check due_____ Form ADFM024 initiated _____/_____/_____ By: _____ PMI Completed date _____/_____/_____

Account #: _____

CARELINC
Home Medical Equipment & Supply

OXYGEN CALL LIST

Directions to Home / Special Instructions: ____

____

____

Deliveries

Date / Qty.	Date / Qty.	Date / Qty.	Date / Qty.
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______/______	______/______	______/______	______/_____

Account #: ________________